ˋ Ţ ḟ Ϥ ừ Q

UJ0UVU;530W Z Ḧ ϒ˜ ص ⊢ ϭ

ṇ ” ◌ ˝ ᴹ σ Y4139

| ᴀ

óAö | S*üJä K5%4° { • È ` | ¤ o ZAº4š,X.@ Ê]>™ Û + Ä

ä ᴠ ỉ̀ ʁ

` ?U Ÿ4¡ Z { • ü s6Ñ Þ `(=)Ú Þ,X Ô o(M û È¤ o Z]>™!9Px Ã Lp fL8 Ã T ?˜ È¹ ž+ 4Ú `E² y <,X?˜ ` S*ü š í ÆÖ*ü b Ç Í ÞEÄ Y •E¯> Z?· è ü]>™ `4È x5%4°.@ Ê •M6 K Ý Ô n4£P`,X*ü Äà Ê nA¹! { •,X*ü 's-¹,Ì G AÁ ` V É Ä

ᾶ ᴜ ᾳ ἵ

„ Jä K5%4° l •5%0- Öhttp://www.ruijie.com.cn/

„ Jä K5%4° ü4“ v á Öhttp://webchat.ruijie.com.cn

„ Jä K5%4° l •5%0- á u â Õ(+ Öhttp://www.ruijie.com.cn/service.aspx

„ 7 h24 ã Ê T á u&Á4“ Ö4008-111-000

„ Jä K5%4° T AŽ / Öhttp://bbs.ruijie.com.cn/portal.php

„ ?•KÂNl ð2ö Öhttp://www.ruijie.com.cn/service/know.aspx

„ Jä K5%4° T Õ â ¡O\ µ1… Ö4008111000@ruijie.com.cn

ʎ Ʉ⁄… ᾗ

` á/Ä	AÈ â
{ • G!5B `	` Í { • Õ,X Ø5%4° #A, ž J r)„ s)ÚE¯> Z £EÄ È JG! ÝAº4š,XG!5B r _ Ä
{ • Q ¸ `	` Í { • Õ,XG!5B Q ¸ . ZAº4š,X £EÄ Ä Ù À Q ¸ õ ã Ã – DAÈ â ` S*ü Û +1 È JG! Ý K ',X r _ Ä
{ • WEB 1u)Ú `	` Í { • Õ,X Ø s6Ñ,X WEB + M6E¯> £EÄ È JG! ÝAº4š,XG!5B r _ Ä

ᾑ ” — ẩ ᴉ Ḧ

:G›*ü Ø/¡Gf,Â Û « 9></ ü ¡ 0E›/ß hA¹(M ÿ"¼ ã,X • ÈE- o Û «,X ã V ß Ö

a _ É c > A c ” ü ´ / ë _ É ¹ » d

\c”µc¬*cs ´• Mí)û¡‘ ài

; s !6 uN°¼`Ž0,•ï°: ù PP> F• @

1 Ғ ᴥ Ҡ ᴬ

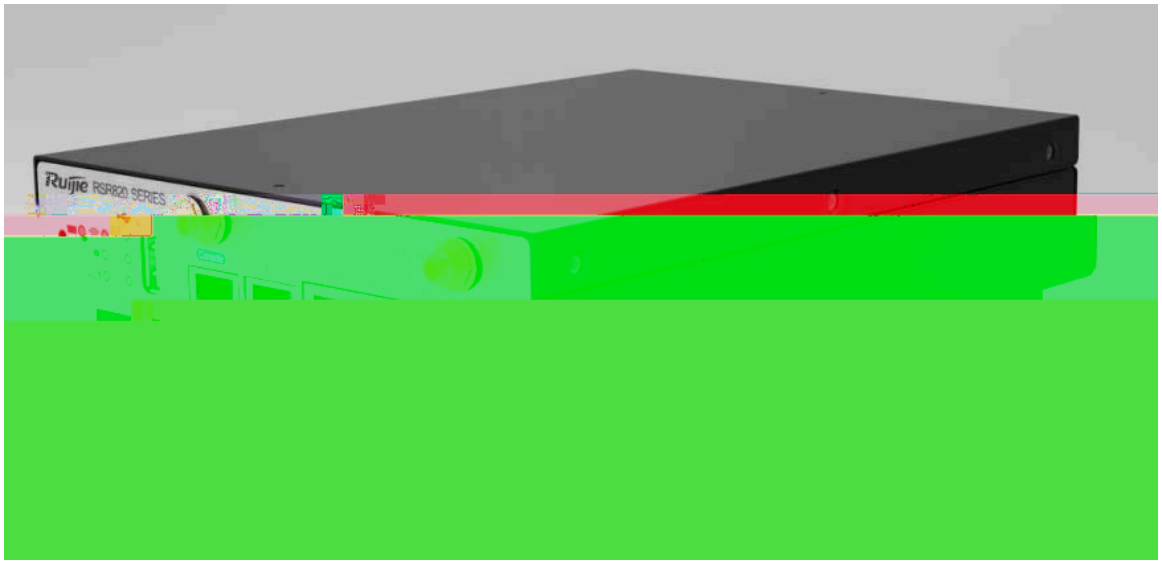
Jä K RSR820-TW 2Ï ë n&•CÃ+ < Ù ÿ RSR820-TW 1 ! { • È ý*ü ÑL E¯,X Ð ' T žEî µ { T È+ Jä K 5%4°6u Ñ ÝL$ @ Ì7¾ Ô ¥,X D BEî µ { • È K Ý7¾ -¹Aš { ÄJä K2Ï ëCÃ+ < ` < Ý'; ÑL Û šE¯> Ô ¥ È´AŽ ü S *ü • ã žG!5B •"© ÞFÑ â,Â ! ÑL # > ,X # CÃ+ < { •,Ì ÈÆ4£'s ] # CÃ+ <G!5B Q ¸,X5%4°1u)Ú ,EîE›KÙAÏ ` È Ã á4£ ÍA•,È yG!5B S*ü { • Ä

1.1 ᴹ ¨ORSR820-TW ᴬ˜ Ḧ ص ⊢ ϐ

1.1.1 ᴹ ¨ORSR820-TW ᴬ˜ Ḧ ص ⊢ ϐ ᴬ Ҡ

RSR820-TW n&•2Ï ëCÃ+ < Jä K5%4°6u Ñ ÝL$ @ Ì7¾ Ô ¥,XM6 åG¥=a> î,X5%4° { • ÄG›*ü 32 !P¬ û6Ñ RISC , Ø)Ú < T È q ,7¾ Ô ¥,XP¬ û6Ñ5%4° ¡ 02Ï4³ G Ä È P • # { •,X Û šG!5B+ M6 ÈG!5B1T) È è ¤ o ,X5%4°] <(M û ÄRSR820-TW Õ TDD-LTE ` FDD-LTE ø/¡ ã 4G È Õ TD-SCDMA ÃWCDMA î ã 3G ÈLš ä 802.11 b/g/n ,X wifi È6Ñ ó ü AP ` STATION s6Ñ Û 6 È Ã ¹$µC‡ v ,X î ê î uLÔ" Ä

Jä K RSR820-TW 2Ï ë n&•CÃ+ < H ê?– Ò



1.1.2 ᴹ ¨ORSR820-TW Ḧ ᴬ˜ ص ⊢ ϐ Ғ ᴥ ᴗ

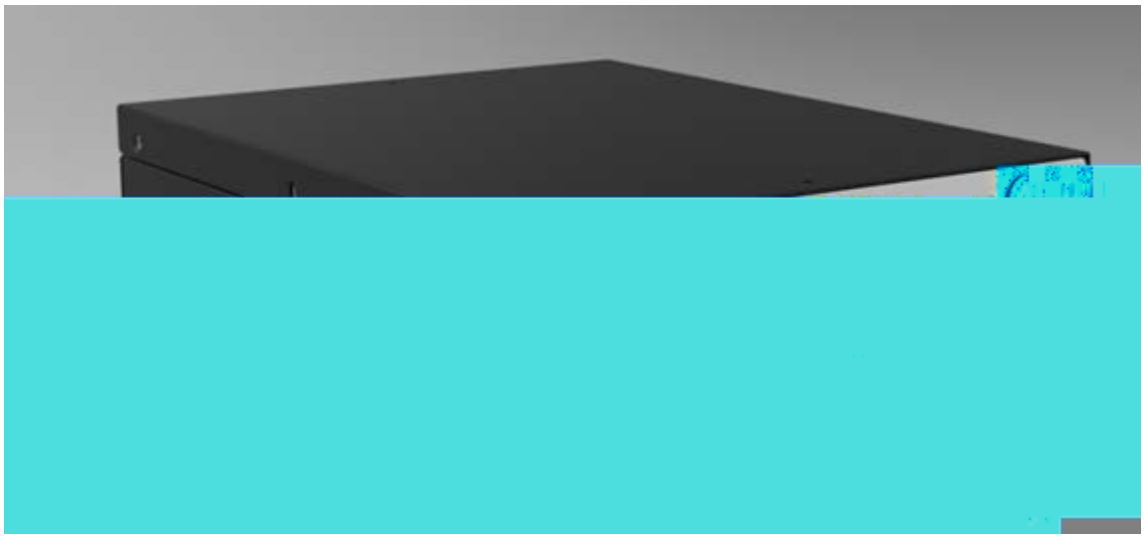
„ y 9 š z ` Ø)Ú6Ñ o

Õ 5 þ ¹ þ5% · È 1 þ console · Ä RJ45 Å È 1 þ USB · È 1 þ 4G LTE WWAN · È 1 þ 802.11 b\g\n WLAN ·

„ ÃM4 û

G›*ü Û Ñ — T È û û ¤P¬5%4° ÃM4 û × ¤ o î/¡ 6 ã,X Û Ñ È Ã ¹ ±A• ÍP¬ ÃM4 û5%4°,XLÔ" Ä

„ P • û

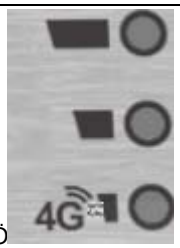


1	2'&IK ÄFUNC Å	2	SIM 5]>™ 5 Ñ
3	USB A' Û ¦ Ñ	4	Console ·
5	¹ þ5% ·(GE0-GE4)	6	WIFI ý4"]>™ (
7	2 J\7þ0N + $d y · Ä y n&•(ç*ü x# + $dEÖG! < Å	8	4G ý4"]>™ (
9	y =Ž ñ (	10	Ö Š]>™ (
11	SIM 5 Î ÝJ,		

RSR820-TW 2Ï ë n&•CÃ+ <6 M6 Û/ &C

Û/ &CAÈ â Ö

SYS Ö 2Ï4³ Û/ &C	KS&A Ö þ Þ+ ê2Ï4³ Ö × 4Ó&CK¾&• Ö S Þ+ È | × 4Ó8F , Ö S Þ+ È | ` ä Ä
SIM Ö SIM 5 ü ! Û/ &C	KS&A ÖSIMƃ á ü ! × 4Ó&C , ÖSIM 5 ü ! Ä
WIFI Ö	WIFI õ + þ ñ Ÿ ê × 4Ó&C , ÖWIFI õ + ñ Ÿ ê ` ä Ä

WIFI õ +(Š Õ Û/ &C	
 4G Ö 4G µ Ë z/ JÒCÃE² y Û/ &C	Ý&C&A Ö4GJÒCÃ þ ñ Ÿ ê × 1 þ&C ,4Ó&C Ö µ ËEW Â ÈJÒCÃ ÆE² y × 1 È2 þ&C ,4Ó&C Ö µ Ë z Ô8 ÈJÒCÃ ÆE² y × 1,2 È3 þ&C ,4Ó&C Ö µ Ë \ Q ÈJÒCÃ ÆE² y Ä
¹ þ ·(Š Õ&C Ö GE0_ Link/ACT—GE4_ Link/ACT Ö	&CKS ,></ JÒCÃ Æ4£E²Eî &C&A></ JÒCÃ þE²Eî &CK¾&•></ Ý D B ¥ Ä
USB Ö USB (Š ' Û/ &C Ö	4Ó&CKS ,></ USB A' ÛE² y!7 4v&CKS ,></ USB A' Û Lp 4Ó&C `4v&C&A><ŁUSB þE² y

1.1.4 ϒ ¨ORSR820-TW ϒ˚ Ë ص ϧ ϐ • ∃ ˜Ą

Jä K RSR820-TW ,X(M û – D V ß Ö

NM,Â	RSR820-TW
5 ,ÕG!5B	1 þ Console · Ã5 þ 10/100M /1000M ¹ þ5% · Ã1 þ USB · Ã1 þ 802.11 b\g\n ´ 4“ ³ · Ã1 þ 4G ´4“ S ³ ·
Ø)Ú <	RISC P¬ û6Ñ5%4° Ø)Ú <
DDR3 RAM	512MB
Boot Rom	32MB
D B NAND FLASH	128MB
ê _ Ì(W*H*D)	175mm*152mm*40mm
Eg 9+ _	x# # Eg 9 90V 240V /50HZ 60HZ
H s5ë	ã b 12W

2ä ë n&•CÃ+ < Hïâ°• ·Â•›pœ0D…S*ü,X+ 4Ú RJ-450462

é6î Ë	A	B
1	-,Q	-,Q
2	-	-
3	4Ó,Q	4Ó,Q
4	:±	:±
5	:±,Q	:±,Q
6	4Ó	4Ó
7	©,Q	©,Q
8	©	©

x •5%4“4“ c G2Ï><

é6î Ë	A	B
1	-,Q	4Ó,Q
2	-	4Ó
3	-,Q -,Q	-,Q
4	:± -	

3 4Ó,Q -,Q -,Q

„ Õ Ö!9 [Ê ôEg #A, X-MODEM 4{ • ã

„ Õ NAT ÃACL ÃAAA

„ Õ IPSEC ÃL2TP ÃPPTP

1.2.2 ʒ ḃ ᵕ ᶌ Ủ ᵗ ᶻ

¤ o Û š ¡ 0+ M6 ÈG!5B,È?– È!£ 5 Q ¸ ¤ oAº4š,X ü4“ } Ä

S*ü ` J\ Í Ø 5 Q ¸FÑ ÝAº4š,XAÈ â `/ _ È J ¤ o <M6,X Lp Ú d £EÄ Ä

1.2.3 ǟ ᶻ ᵕ ʃ γ ה ᴧ

„ ÕEîE›CÃ+ #A, r)„CÃ+ Û Ñ Ä

„ Õ y · Û Ñ s6Ñ Ä

1.2.4 ʌ Ḹ ᵕ ´ ʼḤ ᵘ ᴺ Ᵽ ṩ Ʊ

„ 4{ • ã

„ VLAN T

1.2.6 ¨ḤЖ ¨ ′ ˧ ˩ ề

„ Õ Ö!9 [Ê ôEg X-MODEM #A, È Ã ¹ ü Ø/¡ ¡ 0)ƒ W(V Windows XP ÃWindows NT ÃUNIX ÃDOS 1) ßEîE› Console · ßEQ „,X 4{(Ä

„ Ã ¹ ÕEîE› TFTP #A, ßEQ „,XEC Ê(Ä

„ Õ BOOTROM ü4“ 4{ Ä

„ Õ U ,¬ ÔK 4{2Ï4³

2 ص ⊢ ϐ ḟ ϙ | ⁝ ´ ʃ

2.1 ḟ ʒ ↕ ổ ' ڱ

„ CÃ+ < S ™- 5%4°E² y,X E@0-,XG¡?U 0*ü È J!7 S*ü G2Ï H þ5%4° ú6Ñ!7 E¤ 0 Ä

„ üCÃ+ <,X]>™ ` S*üE›/ß (M ¤ Î V ß,X] < ÎA,

„ AË á?U ÚCÃ+ < 5B ü Ý" ,X • È 3 á?UA}#† 'E¯ 9CÃ+ < Ä

„ AË ÚCÃ+ < 5B üE°/•&Á$d,X • Ä

„ AË.BAxCÃ+ <,X!7 y Ä

„ AË*ü ü]>™4È xE›/ß = L M-+ 7) Ä

„ AË á?U ú+ ¦ ¨ ý4“ Ä

„ á?U0S- R 7,X á>™ ¹L Ò # < ÊEô ä 3 # È !8AË2Ï2û>7 ú Ã È Ò È " Q>7>j Ä

„ Ú ¹ K Ã < Ê üE°/• Ž ,> CD,X • ¹L .„ Ä

„ ÎA,*ü S*ü UPS áKÈ •+ $d È Ô •M6 Ã ¹FS ! •+ È º Ô •M6 Ã ¹FS !+ $d F D Ä

a " ´ N W 0 ( ] ø Ü â þ ò • É } u © ä ¢ d

a È Ö ! 6 \ y " Ì X ( ] d

2.2 ḟ ϙ ⸸ ⸸ ⊏ ₱

Jä K2Ï ëCÃ+ < ™NO ü x Y S*ü È ±A•CÃ 0 ` È Ó Q Ä]>™ hA¹$µC‡ ß ë?U" Ö

„ #ý z/ $S z?U"

„ "Õ ” z?U"

„ L M-+ ?U"

„ k F D?U"

„ L LË Ï?U"

„ ” ¹]>™ Ä

2.2.1 ╗ ẘ/╜ ẘ ⊏ ₱

±A•CÃ+ <!7 ¹ 0 J ÊKS J S*ü Ó Q È Ô n,X#ý z `$S z Ä8¹ P¬ È í çEô ä4±4ì $ m4±

!è í)ƒ W ß • ç {*óM-+ ÈE ‡CÃ+ < Þ,X YF¼+ CÃ Ä#ý zE›P¬ î tEó4±4ì $ m,X5Õ êE›/ß ÈSCÃ+ <,X ÃM4 û û ûL! " È ùG¡ E ¡ J S*ü Ó Q Ä

Jä K RSR820-TW CÃ+ < Í#ý z$S z,X?U" ?• ß Ö

„ #ý z Ö-20 ~60

„ ,Ì Í$S z Ö10%~90%

] ´ , B 1 g ¡ g ¾ } ¾ v o ¯ • l P ¨ o P » h 1.5m ä } ¾ v ¯ • º 0.4m ‰ h N ô d

â ½ ! 6 s , B 1 g ä - s ¡ g ‘ Ð ¶ Ÿ â ¢ ! n ˜ » R ! 6 ‹ ÿ õ ô / u y d

2.2.2 Δ¸ ẘ Ɛ ₱

&D ì ÍCÃ+ <,XE¤>] < 3 Ô û E ‡ È x Y&D ì: üCÃ+ < Þ îEô äM-+ L È Ð7È y?º á8C È á E ¡A’ Û Ó Q È5à è • çEô äEî µ Lp Ä ' x Y,Ì Í$S z # " Ê È È ç {*óE-/¡M-+ L Ä

Jä K2Ï ëCÃ+ < Í Y,X&D ì ÿG£ ž2f X?U" ?• ß>< Ö

ÔÈûåÈ„Xg(y`õ)GE •PïSƒ„• H VDtPH V …&Ì0Ö	0.5	1	3	5
Ô û#' z(!£0Ÿ •2G ÿNk2f D)	1.4×107	7×105	2.4×105	1.3×105

L8&D ì ê ÈCÃ+ < Í 0N!è ÿ,X,¤GL.? ê(= 3 Ý ù ,X?U" ÈE- o Ý ‡!è ' î tEóG¥ 2,X7$<T ` ¤ oCÃ+ <F¼ Ê5Õ êE›/ß È Y Í SO_2 ÃH_2S ÃNO_2 ÃNH_3 ÃCl_2 1 Ý ‡!è ',X K 'L$?• ß>< Ö)

„ Ú š L ß,XCÃ+ <+ CÃ SM6 ñ Þ 5B ü kM-+ ,X ¹ 0 Ä Þ ê 9+ .• #; >_ Ä

„ ?– ³ êE@/Ï š L,XCÃ+ <+ CÃ S Ê ÈAË*ü y?º+ CÃ S,X êE•4ìFS !*ü ,È y?º L+ CÃ S Þ,X < Ê Ä

2.2.4 ˝AẆ ȧ Ɛ ₱

E-G k F D ¾?U Û+ .• Ã+ # 1 F D È ßM6 k F D,X Ô o?U" Ö

„ Í o+ 2Ï4³G› ª Ý ,XL + 5% F D ~ ‘ Ä

„ CÃ+ < ¹ 0 Ô Q á?U â+ oA’ Û,X y >™5B êL LË y >™5B Ü*ü J Ã6Ñ,ÌC±E° Ô o Ä

„ E°/• s)[´4“+ ¥ Ø Ä ÃLËE’ ¥ Ø Ä1 P¬Ne û+ # A’ Û Ä

„ ™?U ÊG› ª+ .• #; ,X •"© Ä

2.2.5 ɨ ɔ̈ ˛ Ɛ ₱

Jä K2Ï ëCÃ+ < ÍL LË Ï 0 Z Ø)Ú È 0 Ô/¡+ !èA’ Û ÈE› ,XLË Ï ¡ Ã6Ñ Í JEô ä 3 # Ä ¹ ÈG› ªL LË Ï ~ ‘ ™NO,X Ö

„ ±A•CÃ+ < y 4“ â û ± Õ8C Q y?º ×

„ ±A• x# + $d ¦ {,X û&• â û 8C Q y?º ×

„ Z r + $d,XL LË Ï p È Ã ¹5×<% ü+ $d,XEg 9 !0Ã t 9+ $dFSLË < Ä

2.2.6 ʕ ɨ ꟼ ꟼ ꟼ

´AŽ ÚCÃ+ <]>™ ü ° YE¬ ,È y ü ¹ 0 Ä Þ ÈFÑLÔ?U ±A• ¹ ß 5 Ê Ö

„ #ý z/ $S z?U" È.BAxCÃ+ <,XEîN¢ · Ø+- Ý0NKÈ ¹ ý bCÃ+ < 1…,X 7&Á

„ .BAx ° ž ¹ 0 ÄC‡ ó(6 Î È6Ñ ó eCÃ+ < ž J]>™L Ê,XG¡G£ Ä

„ .BAx ° ž ¹ 0 Ä,X8C Q y Ä

2.3 ɨ ꟼ ṣ Ʊ ᵘ ⊢ ʃ

Z |,X]>™NN ý ÈAË š Û Ö

„]>™ ¹ K

„ E² y4“4Ú

„ ,Ì GA’ Û

„]>™ ¹ K Ù À Ö

L M-+ 7)

E² y4“4Ú Ù À Ö

+ $d4“

G!5B4“

¹ þ5%4“

, RSR820-TW ¾ v ; o (W Á v (W ¬ ä 1m ¬ ¬ c P ¬ ‘ – ó ð s d

‚Ì GA’ Û Ù À Ö

„ HUB ê x 6

„ G!5B4œ0Ã Ã ¹ 4œ0Ã È 3 Ô Ä]>™ ÝCY4{4œ0ÃÞC

„ + $d ¦ {

3 ص ⊢ ϐ ⸚ ⱡ ϟ

3.1 ص ⊢ ϐ ⸚ ⱡ ϟ ʃ

ZFS ! ü]>™E›/ß Î)„ -6î E ê5ÙAÃ ¡ 0 Ð7ÈCÃ+ < 3 # ÈAË Ý'; Ô ß# /ßE¯>]>™ Ö

3.2 ϑ Ϊ ص ⊢ ϐ Ϋ ⅃

]>™CÃ+ < Û n !5B G Î nCÃ+ < È ü]>™ š Û ¹ 04§ 3 ¹ â È y- LÔ?U ^CÃ+ < Î n Û n !5B ÄCÃ+ <,X]>™ !5B Ô8 ¾ Ý ¹ ß ø/¡ ™ ‰ Ö

„]>™ ü ¹ 0 Ä Þ

„ • Ö `NJ Ö]>™

3.2.1 ḟ Ϥ ŋ ṣ l ˡ s

ü rL S*ü)ƒ W È4£ ÚCÃ+ < 5B ü F ”,X ¹ 0 Ä Þ È!8/¡ ¡ 0!¨EW1T) È ¡ 0 LÔ?U"¼ ã V ß _NM Ö

„ ±A• ¹ 0 Ä,X G0 û â8C Q y Ä

„ üCÃ+ < < È+- Î 10cm ,X 7&Á0NKÈ Ä

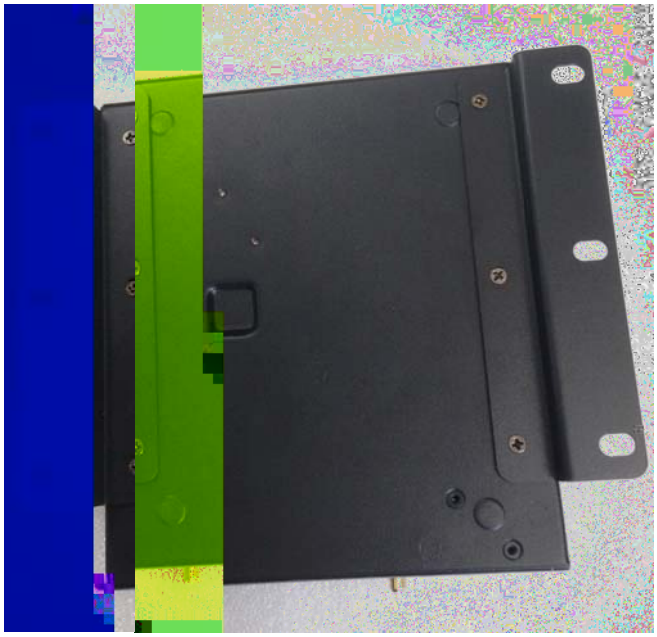
„ á?U üCÃ+ < ÞM6 5BG¡(= Ä

3.2.2 ɳ ĩ ᵘ ⱷ ĩ ḟ Ϥ

Í b RSR820-TW ÃRSR820-TW(MA)CÃ+ < È Ã ¹G›*ü • Ö ê5ÙNJ Ö]>™ È*ü b]>™,X m • Ã ¹ " "¹ m ê üBü Ä BEÝ ½ á à È å Ì ÛG! Z M4 ,X]>™ + Ê È V p á ÜEÖAË7¾> š ÛM5 7¾ =Ž ñJ]E¯> Ä

]>™!9Px V ß Ö

1 Ô!9 Ö ÚL Ê,¦ ,XL Ê Š ª Î È J*ü ÚL Ê ú M3*6 =Ž ñJ] ª Î È V ß Ò Ö



1 Ý!9 Ö ü m • ê5Ù Î n Š !5BJ• Q Î n (È (C± 45mm Ä

1 ¯!9 Ö*ü 6 þ M5 G¥ 2=ŽJ] ê5ÙM4]>™ + Ê Ú • ÖG! Ê Î n ü Î n !5B Þ Ä

3.3 ḟ ዓSIM ¦

1 Ô!9 Ö ª Î SIM 5 ¦ Ñ,ª S

Î V,X „ < Æ Ú SIM 5,ª S]>™ üA' Û È ü]>™ SIM 5 ! ÈLÔ?U S*üL Ê ÛG! ª 5J\ Ú SIM 5,ª S ª Î Ä SIM 5 ª 5J\

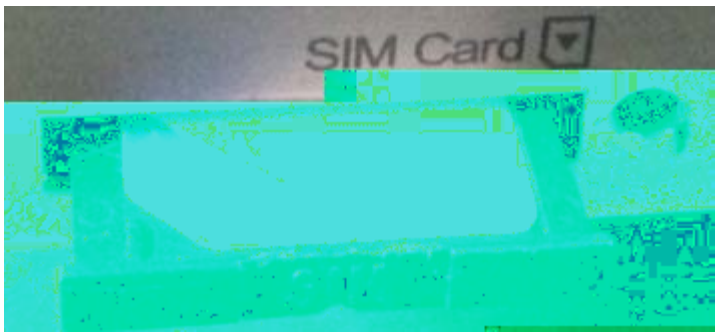
SIM 5 ª Î !5B

1 `!9 Ö]>™ SIM 5

SIM 5 ¦ Ñ,ª S !5B

Ú SIM 5 ¦ 9 RSR820-TW ,X {M6 Ò/ SIM 5 ¦ Ñ È]>™ Ê,X • å SIM 5,XG¥ ÛM6 å Þ È Ý5 ?¦,XE• ü !M6 Ä J Ú SIM 5 åG | 9 i Ä

K ']>™ • å V ß Ò / Ö



a ¡ } • • n (q _ ì Ÿ) û SIM • Í dSIM • â [Û (Í d

3.4 ƒ Ϙ ƶ ⅵ

RSR820-TW CÃ+ < 4G ý4“ ` WIFI ý4“ Ã ¹ B rL ™ ‰E¯> EÝG! ÈL Ê áE¯> ÛG! Ä*ü ¾LÔ?U Ú ê5B ý4“ `

ê5B ý4“ y ·!7.B ŸE@ Í y È G Ã]>™ ä s ÄWIFI ý4“ ü !M6 S È Û/

`

Ä4G ý4“ ü

âM6 S Þ È Ò Û

`

ÈAË Ô n"¼ ã ý4“LÔ?U Ÿ2û Ä

º ê B7¾D• h*ü)ƒ W,XLÔ" È*ü ÃNq ê)(ÀEÝG! ú ÊKS4“,X J• _ ê ´ Ž \6Ê ¦ _ ý4“ Ä

a t l 4G þ ( ] ´ ä WIFI ÿ Ÿ ‘ Ü æ æ 2 T 4G Ÿ ¬ ä 2 T wifi Ÿ ¬ æ æ m h d

a ó " Ÿ ¬ â [Û (Í ¡ } • • n (q _ ì Ÿ) û ó " Ÿ ¬ m g à Ü • d

3.5 ƒ Ϙ ⸗ ╟ ⸮ ف ϐ j ɾ ⅵ

Jä K RSR820-TW CÃ+ < Õ ¹ ß x# + $d Ö

+ $dEÖG! < ÖEg 9AC: 100~240V × 50-60Hz

Eg Î DC: 12V/1.25A

AË.BAx |,X x# + dµC‡ S*ü?U" È á?U S*ü å Ì ÛG! ¹ ê,XEÖG! < o+ È ú í Ã6Ñ î Ð7È ã ê ™ ‰ ¥*ó Ä

ÛG!+ $dEÖG! <

ÛG! Ý8ƒ+ $d4“

RSR820-TW ,X 4“]>™&• ! bA’ Û,X âM6 S · Þ ÈAË"¼ ã y &• Û/ È Ô n?U ÚA’ Û S*üT˜4Ó y 4“ y Ä

CÃ+ <,X+ $d4“ Ý4“,X ÈÎA, S*ü Ý û&• y ,X),Ì Ý4“+ $d ¦ { ê î s6Ñ , + $d ¦ { È+ $d,X û&• ü Î1%(=
?U ÃM4 y Ä Ô8 P ü ‘ ¹ ×4“ Ê Æ Ú P o+ 2Ï4³,X+ $d û&• Ÿ È |LÔ?U.BAx P+ $d ú Æ4£!7.B y Ä

(W ¶ ë m } • • - É ¯ º ¬ 9 d

4 ! Π ᵘ ف ⅃ ص ⊢ ϭ

4.1 ! Π ص ⊢ ϭ

4.1.1 ʼΩ Ấ ف ⅃ ⅃ ⅃

üCÃ+ <1 Ô õ S*ü,X Ê í È ™NOG›*üEîE› Console · • ã ÍCÃ+ <E¯> G!5B È K ',X ¡ 0!9Px V ß Ö

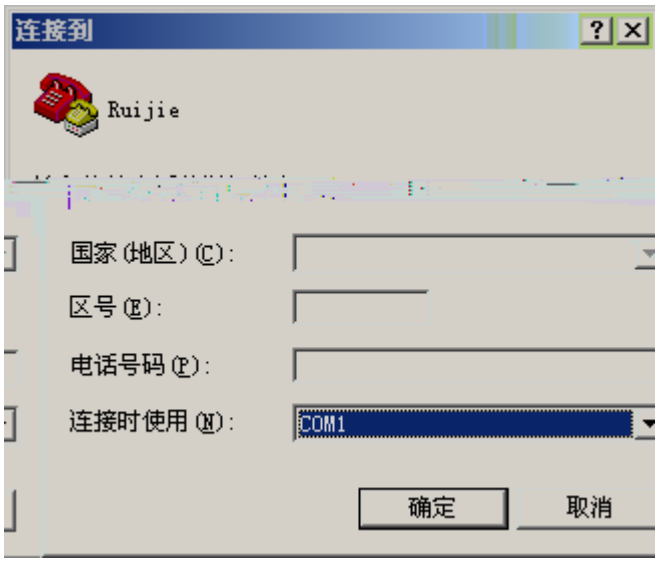
1 Ô!9 Ö V ß Ò / È Ú Ô +0ú4œ0Ã ê5Ù , ,X ·EîE› Û š,X RS232 4“4Ú `CÃ+ <,X Console · Ä 3 ¿G!5B · ê { M6 S · ÅE² y Ä

EîE› Console · Î G!5B)ƒ W

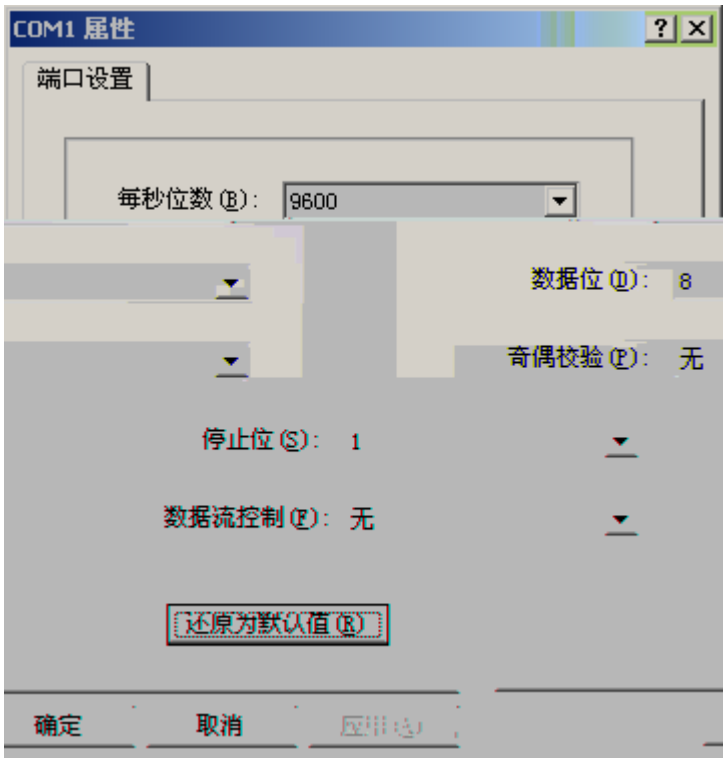
1 `!9 ÖG!5B4œ0Ã,XEîAƒA’5B – D ÈV pG›*ü , ÈíLÔ?UE¤> 4œ0Ã Ó,ó/ß c ÈV Windows ¡ 02Ï4³ ¤ o,X Hyperterm(CY 4{4œ0Ã)1 È ¹ ß ¹CY4{4œ0Ã _ ÈAÈ â K ',X ¡ 0E›/ß ÄE¤> CY4{4œ0ÃEC Ê È Î0Ÿ „E² y ÈEÝ ½ `CÃ+ <,X Console E² y,X · ÈA’5BEîAƒ – D Ö9600 "¶(M)[Ã 8 ! D B ! Ã1 ! 0!6 ! Ã ´ õP` Ã ´# { È J èEÝ ½4œ0Ã Ó,ó2O _ T100 È V ß Ò,X Windows ,XCY4{4œ0Ã,XA’5B+ M6 Ä

Î0Ÿ „E² y

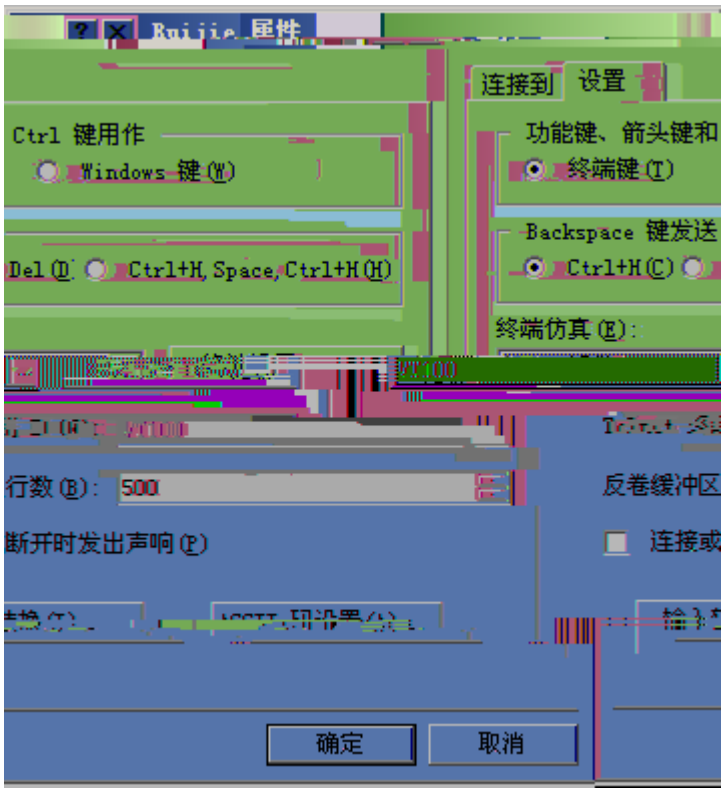
EÝ ½ `CÃ+ <,X Console E² y,X , ·



A’5B ·,XEîA*f* – D



EÝ ½4œ0Ã Ó,ó2O _



Î `G!5B)ƒ W È G Ã ÍCÃ+ <E¯> Þ+ Ä

4.1.2 ص Ⱶ ɓ S ≠

4.1.2.1 S ≠ |╒

ü Þ+ ! ÈAË ÍCÃ+ <E¯> V ß ”¹ Ö

„ + $d4“ ` 4“E² y ú!7.B

„ o+ + _ âCÃ+ <,X?U" ú Ô7È

„ G!5B4“4ÚE² y ú!7.BG!5B*ü , ê4œ0Ã ú Æ4£ ' Ô JA’5B `!©

a È}¾ vh(• ò b(þòÿ É)ûGh(¥GÙ(WÓ(ý!•• E*d

4.1.2.2 ص Ⱶ ɓ S ≠

E² y+ $d4“ CÃ+ <

4.1.2.3 S ≠ ᵾ╒

CÃ+ < Þ+ â ÈAËE¯> V ß ”¹ Ö

„ CÃ+ < !M6 S Þ,X Û/ &C / ú!7

„ ” ¹ •"© Ö Þ+ â È 3 : 5 6 <Ú/6&C È!7 ¹ 0 ÊA¹&C 4Ó8F Ä

„ G!5B4œ0Ã ú / !7

„ ” ¹ •"© ÖCÃ+ < Þ+ â4œ0Ã Þ î / CÃ+ <EC Ê7¾?· _1 µ C Ä

4.1.3 ! n ȯ

CÃ+ <1 Ô õ | È î Î)„ V ß µ C Ö

```
System bootstrap ...
Boot Version: RGOS 10.4(3b28)p2 Release(184631)
Nor Flash ID: 0x0102164D, SIZE: 8388608Bytes
CLOCK-3-HW_CAL_INVALID: Hardware Calendar (RTC) Error.
MTD_DRIVER-5-MTD_NAND_FOUND: 1 NAND chips(chip size : 134217728) detected
Press Ctrl+C to enter Boot .....
Verify the image .....[ok]
Loading main program ...
Loading main program 'rgos.bin'.
Load main program successfully.
Executing program, launch at: 0x04000000

CLOCK-3-HW_CAL_INVALID: Hardware Calendar (RTC) Error.
MTD_DRIVER-5-MTD_NAND_FOUND: 1 NAND chips(chip size : 134217728) detected

Self decompressing the image:
##########################################################################################
##########################################################################################
##########################################################################################
##########################################################################################
##########################################################################################
##########################################################################################
##########################################################################################
##########################################################################################
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##########################################################################################
##########################################################################################
##########################################################################################
##########################################################################################
##########################################################################################
##########################################################################################
##########################################################################################
############################################ [OK]
```

```
Self decompressing the image succeed and will jump to 0x00010000...

Ruijie General Operating System Software
Release Software (tm), RGOS 10.4(3b28)p2 Release(184631), Compiled Wed Apr   1 23:42:59 CST 2015 by ngcf69

Copyright (c) 1998-2015s by Ruijie Networks.
All Rights Reserved.
Neither Decompiling Nor Reverse Engineering Shall Be Allowed.

Hardware Calendar (RTC) Error.
*Jan 14 17:13:20: %MTD_DRIVER-5-MTD_NAND_FOUND: 1 NAND chips(chip size : 134217728) detected
*Jan 14 17:13:34: %UPGRADE-5-EXTITEM_INSTALLED: File /web/ucs_gb.db has been installed in flash.
*Jan 14 17:13:34: %UPGRADE-5-EXTITEM_INSTALLED: File /web/ucs_big5.db has been installed in flash.
*Jan 14 17:13:34: %UPGRADE-5-EXTITEM_INSTALLED: File /web/update_list.txt has been installed in flash.
*Jan 14 17:13:34: %UPGRADE-5-EXTITEM_INSTALLED: File /web/web_config.text has been installed in flash.
*Jan 14 17:13:41: %DEVICE-5-CHANGED: Device RSR820-TW (1) changed state to up.
*Jan 14 17:13:54: %LINEPROTO-5-UPDOWN: Line protocol on Interface VLAN 1, changed state to up.
*Jan 14 17:13:56: %LINK-3-UPDOWN: Interface VLAN 1, changed state to up.
*Jan 14 17:13:59: %SYS-5-COLDSTART: System coldstart.
```

Ä ¹ Þ Ô | µ C ™ o –5× È á à.@ ÊG!5B êEC Ê(,XCÃ+ < Ô | µ C î Ý á à Ä Å

E- | Ã ¹ ÍCÃ+ <E¯> G!5B Z Ä

¢ ± ° ¾ v A , Ù Ð ° " _ Ÿ s ¾ v ¢ Ô n ‡ õ ô) û • " d

4.2 ف ˥ ص ⊢ ɓ

?U S*üCÃ+ < ÈE¬ ™NO BLÔ?U ÍCÃ+ <E¯> K ',XG!5B ÈG bCÃ+ < K ',XG!5BAº4š µ CAË –5×,Ì G,XG!5B Û Ð ` Q ¸ –5× Ä

5 ḟ Ϙ ᾷ ڇ ʂ Ᵽ

5.1 ˥ ˧ ᾷ ڇ ὺ ۋ

Jä K RSR820-TW CÃ+ < Ã ¹ B Û/ &C 9 ø •CÃ+ <+ $d2Ï4³ ú Î)„ Lp ÄÛ/ &C,X!7 (Š ÕAË –?•1 Ô0´ ,XAÈ â È V p Î)„ Ö ÈAËE¯> V ß ” ¹ Ö

„ CÃ+ <+ $d Ô G ú ' Ô

„ CÃ+ < o+ + $d Ô G ú ' Ô

„ CÃ+ <+ $d4“ úE² y!7.B

„ CÃ+ < o+ + $d âCÃ+ < ?U" ,X+ $d ú G!

a " ´ ¿ ò ¢ - 9 • 6 < 6

„ SIM 5 ú Ø b ´ á u ê5Ù V 0 á u(Š Õ

a "´¿ ò ¢- 9• .¾ M ¥ h È 0 ò Ó Ç e g • ì [T S , d

5.4 ف ᐧ ᐧ ᐧ ᐧ ᑫ̃ چ ᑌ ڤ

CÃ+ < Þ+ â È V p2Ï4³!7 È ü4œ0Ã Þ Ú / ü1 ¯0´ |E›/ß £EÄ,X µ C Ä V pG!5B2Ï4³ Î)„ Lp È4œ0Ã Þ Ã6Ñ ´ / ê5Ù / E-Õ Ä

V p4œ0Ã"u Ý / µ C ÈAËE¯> V ß ” ¹ Ö

„ + $d2Ï4³ ú!7 Ä

„ { Ä ·4“4Ú ú!7.BE² y Ä

„ V p ¹ Þ ” ¹.BAx"u ÝKÂNl â ÈE¬ ´"© / È \ Ã6Ñ G!5B4“4ÚJíAÃ ê5Ù4œ0Ã – D,XA’5BJíAÃ ÈAËA× H4œ0Ã,X – D Ä

„ V p4œ0Ã Þ Î)„ E-Õ È Ã6Ñ ´ 4œ0Ã – DG!5B á G! Ð7È ÈAË.BAx4œ0Ã – D Ö"¶(M)[9600 × D B ! 8 × J õP` ´ × 0!6 ! 1 × # G£ { ´ ×4œ0Ã Ó,ó VT100 Ä

" ´ ½ ¾ v Å % [Ç õ ô ¸ < „ • ™ ¶ Ÿ ý ! 4 j â ¡ µ d

6 ᛋ ᛊ ä ᛉ ᛇ Ὧ

üCÃ+ <,X h*ü È îF S*ü Ø/¡4“4Ú `E@ y ,X ™ ‰ Ä 0´ Ú Í JE¯> AÈ â Ä

6.1 ᛋ ᛊ ᚩ ᛈ ᛉ ü

6.1.1 CONSOLE ᴬ ᵘ ᛉ ü

CÃ+ <,X CONSOLE · œ/Ä { Ä · È Ô8 RJ45 ,X ¦ { È Ã ¹,È y S*ü DB9F E² RJ45 4“4Ú È ê5Ù S*üE@ 6 RJ45-DB9 (G! < ¡4“,X • ãE² y PC ,X DB9M · Ä

CONSOLE ·,XE² y><

EÖ*üA’ Û	E² y4“4Ú 1	E² y4“4Ú 2	Í0ÃA’ Û
CÃ+ <,X CONSOLE ·	DB9F E² RJ45 4“4Ú	/	PC ,X DB9M ·